



City of Annapolis

Department of Neighborhood & Environmental Programs
145 Gorman Street Fl 3
Annapolis, MD 21401-2529

DNEP@annapolis.gov • 410-260-2200 • Fax 410-263-9158 • TDD use MD Relay or 711 • www.annapolis.gov

Revision Submittals Form

This form must accompany all submittals of revised plans.

You are required to submit five copies (six if commercial) of the revised plans.

Job location address ARIS T. ALLEN BLVD, 1/4 mi E. OF SOLOMONS IS. RD.

Submitted by McLAREN ENGINEERING GROUP ATTN: PETE V. MELLITS, P.E.

Phone (410) 843-8787 E-mail address pmellits@mgmclaren.com Date 6-2-14

Attachments are (please check one)

Permit #

- ☒ Revisions to a permit currently being processed GRD 14-0006
- ☐ Revisions to a permit already issued _____ Issue date _____
- ☐ Additional plans for permit currently being processed _____

Describe changes from original submission. Unless all pages have been revised, include page numbers containing revisions. Drawing changes should be "bubbled," highlighted or indicated in some way.

PLAN REVISIONS, PER CITY OF ANNAPOLIS REVIEW (2nd REVIEW) COMMENTS.
REVISED GRADING PERMIT PLANS FOR 3rd REVIEW

ORIGINAL ESTIMATED COST

Total cost of changes submitted under this revision

\$875.26 (((\$595,250 x 0.001) + 280.00))

☐ Revisions requested by applicant

☒ Revisions requested by City – Department/Employee RESPONSE TO PLAN REVIEW COMMENTS

Fees

Submittal of revised plans will incur a fee as referenced below per City Code Section 17.12.052 and current FY Fee Schedule. This fee is collected upon submittal.

Fee to submit new or revised construction drawings and submittals for review (based on original cost of construction):

0 to \$10,000	\$60.00
\$10,001 to \$15,000	\$115.00
\$15,001 to \$25,000	\$175.00
\$25,001 to \$100,000	\$280.00
\$100,001 and over is 0.1% of the total cost over \$100,000 plus	\$280.00

At option of Director, fee to submit revised construction drawings and submittals for outside review is \$100 plus an hourly fee. (Amounts are chargeable in quarter hour increments.)

Signature

P. V. Mellits, P.E.
Appt

Date

5-30-14



City of Annapolis

Department of Neighborhood & Environmental Programs

160 Duke of Gloucester Street

Annapolis, MD 21401-2517

DNEP@annapolis.gov • 410-263-7946 • Fax 410-263-9158 • TDD use MD Relay or 711 • www.annapolis.gov

Grading, Sediment Control, Storm Drainage, and Utilities Computation Sheet For Grading Permit and Bond Estimate

Address of site	<u>Aris T. Allen Blvd, 3/4 mi. E of Solomons Is. Rd</u>	Email	<u>pmellits@mgmclaren.com</u>
Job name	<u>Aris T. Allen/Rocky Gorge PUD</u>	Submission date	<u>6-2-2014</u>
Engineering firm	<u>McLaren Engineering Group</u>	Phone	<u>(410) 243-8787</u>

Estimated costs

1. Earthmoving (includes dredged material)

a.	<u>6,968</u>	cu yds cut (on-site)	@	<u>\$4.00</u>	/ cu yds =	<u>\$27,872.00</u>
b.	<u>12,012</u>	cu yds fill (on-site)	@	<u>\$4.00</u>	/ cu yds =	<u>\$48,048.00</u>
c.	<u>5,044</u>	cu yds excess spoil to be removed or borrow placed onsite	@	<u>\$10.00</u>	/ cu yds =	<u>\$50,440.00</u>
<i>Subtotal</i>						<u>\$126,360.00</u>

2. Sediment control measures

a.	<u>2</u>	Stabilized const. entrance	@	<u>\$1,000.00</u>	/ ea. =	<u>\$2,000.00</u>	
b.		Sediment basins	@		/ ea. =		
c.	<u>1</u>	Silt traps	@	<u>\$5,000.00</u>	/ ea. =	<u>\$5,000.00</u>	
d.		Lin ft silt fence	@		/ lf =		
e.	<u>600</u>	Lin ft earth berm	@	<u>\$4.00</u>	/ lf =	<u>\$2,400.00</u>	
f.		Lin ft of stone outlet structures	@		/ lf =		
g.	<u>6,679</u>	Sq yds of seeds, mulch and 2" fertilizer	@	<u>\$3.00</u>	/ sq yds =	<u>\$20,037.00</u>	
h.		Sq yds of sod	@		/ sq yds =		
i.	Attach supplemental information not noted above					See attached listing	<u>\$10,900.00</u>
<i>Subtotal</i>						<u>\$40,337.00</u>	

3. Storm drains and storm water management facilities

a.	<u>919</u>	Lin ft of <u>15-21</u> " pipe	@	<u>*\$51.00 (RCP)</u>	/ lf =	<u>\$46,869.00</u>	
b.	<u>473</u>	Lin ft of <u>24-30</u> " pipe	@	<u>*\$61.00 (RCP)</u>	/ lf =	<u>\$28,853.00</u>	
c.	<u>62</u>	Lin ft of <u>33-36</u> " pipe	@	<u>*\$86.00 (RCP)</u>	/ lf =	<u>\$5,332.00</u>	
d.	<u>3</u>	Headwalls/endwalls	@	<u>\$1,500.00</u>	/ ea. =	<u>\$4,500.00</u>	
e.	<u>16</u>	Inlets	@	<u>\$3,000.00</u>	/ ea. =	<u>\$48,000.00</u>	
f.		Cu yds rip rap	@		/ cu yds =		
g.	<u>49</u>	Sq yds filter cloth	@	<u>\$3.00</u>	/ sq yds =	<u>\$147.00</u>	
h.		Lin ft curb & gutter	@		/ lf =		
i.	Attach supplemental information not noted above					See attached listing	<u>\$115,150.00</u>
<i>Subtotal</i>						<u>\$248,851.00</u>	

*NOTE: L.F. UNIT COST FOR RCP STORM DRAIN ABOVE INCLUDES RUBBER GASKET JOINTS.

4. Water mains

a. 436	Lin ft of DIP 8	" pipe	@ \$60.00	/ lf =	\$26,160.00
b. 182	Lin ft of Conn 1.5	" pipe	@ \$15.00	/ lf =	\$2,730.00
c. _____	Lin ft of _____	" pipe	@ _____	/ lf =	_____
d. 3	Valve & box		@ \$700.00	/ ea. =	\$2,100.00
e. 1	Fire hydrant		@ \$4,500.00	/ ea. =	\$4,500.00
f. _____	Blow-off assembly		@ _____	/ ea. =	_____
g.	Attach supplemental information not noted above		_____		
	<i>Subtotal</i>		<u>\$35,490.00</u>		

5. Sewer mains

a. 1,223	Lin ft of PVC 8	" pipe	@ \$20.00	/ lf =	\$24,460.00
b. _____	Lin ft of _____	" pipe	@ _____	/ lf =	_____
c. 10	Manhole, type:		@ \$2,500.00	/ ea. =	\$25,000.00
d. 549	Connection		@ \$35.00	/ ea. =	\$19,215.00
e. _____	Terminal		@ _____	/ ea. =	_____
f.	Attach supplemental information not noted above		_____		
	<i>Subtotal</i>		<u>\$68,675.00</u>		

6. Roadway

a. _____	Sq yds of blacktop	@ _____	/ sq yd/in =	_____
b. _____	Sq yds of concrete 6" thick	@ _____	/ sq yds =	_____
c. _____	Cu yds of gravel	@ _____	/ cu yds =	_____
f.	Attach supplemental information not noted above		See attached listing	\$130,752.00
	<i>Subtotal</i>		<u>\$130,752.00</u>	

7. Landscaping

a.	Attach landscaping estimate information. Bond estimate value shall be 120% of attached estimated value.			
	<i>Subtotal</i>			
	<u>\$38,150.00</u>			

8. Total estimated costs *(This is your bond amount.)*\$688,615 (\$826,338)**Fee schedule**

Per City Code Section 17.08.080

1. Non-refundable Application fee and Grading permit fee, by estimated cost, can be found in the current Fiscal Year fee schedule which is posted at the top of our website's [Forms, Permits and Licenses](#) page. The application fee is collected at the time the application is submitted and deducted from the permit fee when the permit is issued.
2. Soil Conservation Review fee, paid at time of permit submittal is \$200.00.

Signature and Seal of engineer who prepared this computation sheet

Signature

Printed/typed name Piero "Pete" V. Mellits, P.E.

Date

5-30-14*Seal***FOR CITY USE ONLY**

Status	Review by	Date
Approved as submitted		
Revision required as marked		
Revision approved		



Aris T. Allen/Rocky Gorge PUD

05-30-14

2. Additional Sediment Control:

Super Silt Fence	400 LF	\$10.00 per LF	\$4,000
Reinforced Silt Fence	270 LF	\$10.00 per LF	\$2,700
Safety Fence (Orange)	200 LF	\$3.00 per LF	\$600
Inlet Protection Device	12 each	\$300 each	\$3,600
Subtotal.....			\$10,900

3. Additional Storm Drain and Stormwater Management:

Manhole	12 each	\$2,500 each	\$30,000
UngROUTED Riprap (Class I)	50 SY	\$75.00 per SY	\$3,750
Stormwater—Micro-Bio Facility	5 each	\$15,000 each	\$75,000
Stormwater—SFD Dry Wells	13 each	\$400 each	\$5,200
SWM Landscaping	0.6 acres	\$2,000 per Ac.	\$1,200
Subtotal.....			\$115,150

6. Additional Roadway:

Bituminous Conc. Base 4 in.	1,973 SY	\$12.00 per SY	\$23,676
Bituminous Conc. Surface 2 in.	1,973 SY	\$8.00 per SY	\$15,784
Gravel Base Course 6 in.	2,612 SY	\$8.00 per SY	\$20,896
Concrete Sidewalk	6,004 SF	\$4.00 per SF	\$24,016
Concrete Curb & Gutter	844 LF	\$20.00 per LF	\$16,880
Street Light	9 each	\$3,000 each	\$27,000

Concrete Driveway	50 SY	\$50.00 per SY	\$2,500
Subtotal.....			\$130,752

7. Landscaping:

See attached / separate estimate.

Subtotal.....	\$38,150
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<u>Total Estimated Cost</u>	\$688,615
Plus 20% (120% of the estimated value)	\$137,723
<u>Total – Bond Amount</u>	<u>\$826,338</u>
<u>Grading Permit Fee (estimated), total</u>	<u>\$20,658 + \$265 = \$20,923 (3% estimated cost + \$265)</u>

Landscape Cost Estimate - Part 1
Aris T. Allen / Rocky Gorge PUD



Aris T. Allen / Rocky Gorge PUD
 Landscaping Cost Estimate - Part 1
 MEG Project No.: 130003.01
 Date: 5-30-2014

McLaren Engineering Group
 601 East Pratt Street, Suite 302
 Baltimore, MD 21202
 T: 410-243-8787

Item Description	Unit	Unit Price	Quantity	Cost
Street Trees - Shade	EA	\$350.00	29	\$10,150
Shade Trees - minor	EA	\$300.00	30	\$9,000
Ornamental Trees	EA	\$250.00	25	\$6,250
Evergreen Trees	EA	\$200.00	42	\$8,400
Shrubs	EA	\$30.00	145	\$4,350
Note: Landscaping associated with the SWM facilities is included with the Grading permit bond estimate.				
Total				\$38,150
20% Contingency				\$7,630
GRAND TOTAL				\$45,780



PLANT LIST (PART 2 ONLY)

SHADE TREES

KEY	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	CAL.	CONDITION	SPACING	REMARKS
AR	6	ACER RUBRUM 'AUTUMN FLAME'	AUTUMN FLAME MAPLE	12' - 14'	2" CAL.	B&B	35' O.C.	STREET TREE & BUFFER AREA TREE
AS	9	ACER SACCHARUM	SUGAR MAPLE	12' - 14'	2" CAL.	B&B	35' O.C.	STREET TREE
LS	9	LIQUIDAMBAR STYRACIFLUA 'ROTUNDFOLIA'	FRUITLESS SWEETGUM	12' - 14'	2" CAL.	B&B	35' O.C.	STREET TREE & BUFFER AREA TREE
QA	19	QUERCUS ALBA	WHITE OAK	12' - 14'	2" CAL.	B&B	40' O.C.	STREET TREE
QB	25	QUERCUS BICOLOR	SWAMP WHITE OAK	12' - 14'	2" CAL.	B&B	35' O.C.	MATCH TREES FOR STREET TREES
TOTAL=		68						

MINOR SHADE TREES

KEY	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	CAL.	CONDITION	SPACING	REMARKS
BN	9	BETULA NIGRA 'HERITAGE'	'HERITAGE' RIVER BIRCH	8' - 10'	1"	B&B	AS SHOWN	
MV	20	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	8' - 10'	1"	B&B	AS SHOWN	
PRS	20	PRUNUS SARGENTII	SARGENT CHERRY	8'	1-1/2"	B&B	15' O.C.	DEEP ROSE, BLOOMS EARLY SPRING
TOTAL=		49						

ORNAMENTAL TREES

KEY	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	CAL.	CONDITION	SPACING	REMARKS
AA	19	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	6'	3/4" CAL.	B&B	15' O.C.	MULTI STEM
CC	11	CERCIS CANADENSIS FOREST PANSY	FOREST PANSY REDBUD	6'	3/4" CAL.	B&B	15' O.C.	MULTI STEM
CxR	9	CORNUS X RUTBAN 'AURORA'	AURORA RUTBAN DOGWOOD	6'	3/4" CAL.	B&B	15' O.C.	WHITE FLOWERS
HV	3	HAMAMELIS VIRGINIA	WITCH HAZEL	4'		B&B	15' O.C.	
MS	16	MAGNOLIA X SOULANGIANA 'GALAXY'	SAUCER MAGNOLIA	6'		B&B	15' O.C.	PINK FLOWERS
PY	14	PRUNUS X YEDOENSIS 'YOSHINO CHERRY'	YOSHINO CHERRY	8'	1-1/2" CAL.	B&B	15' O.C.	WHITE TO PINK FLOWERS; LATE APRIL BLOOM
TOTAL=		72						

LARGE EVERGREEN TREES

KEY	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	CAL.	CONDITION	SPACING	REMARKS
JV	34	JUNIPERUS VIRGINIA	EASTERN RED CEDAR	5'		B&B	15' O.C.	
IF	0	ILEX X ATTENUATA 'FOSTERI'	FOSTER'S HOLLY	5'		B&B	15' O.C.	
IO	12	ILEX OPACA	AMERICAN HOLLY	5'		B&B	15' O.C.	PLANT ONE MALE FOR EVERY 5 FEMALES HOWARD CULTIVAR PREFERRED
S	5	PINUS STROBUS	WHITE PINE	5'		B&B	15' O.C.	B&B OR CONTAINER
TC	14	TSUGA CANADENSIS	CANADIAN HEMLOCK	5'		B&B	15' O.C.	B&B OR CONTAINER
TOTAL=		65						

SHRUBS

KEY	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	CONDITION	SPACING	REMARKS
CA	9	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	24" - 30"	#3 CONT.	4' O.C.	
CO	23	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	30" - 36"	#3 CONT.	5' O.C.	DECIDUOUS SHRUB
IM	2	ILEX X MESERVEAE	BLUE PRINCESS HOLLY	24" - 30"	#3 CONT.	4.5' O.C.	EVERGREEN SHRUB, TO BE MAINTAINED AT 6' HEIGHT
IVL	28	ILEX VERTICILLATA	WINTERBERRY HOLLY	30" - 36"	#3 CONT.	5' O.C.	PLANT 1 MALE FOR EVERY 9 FEMALE PLANTS.
LB	9	LINDERA BENZOIN	"SPICEBUSH"	24" - 30"	#3 CONT.	3' O.C.	EVERGREEN SHRUB; PALE YELLOW FLOWERS; MARCH - APRIL
OL	0	PRUNUS LAUROCERASUS 'OTTO LUYKENS'	OTTO LUYKENS CHERRY LAUREL	24" - 30"	#3 CONT.	5' O.C.	EVERGREEN SHRUB
RD	21	RHOODODENDRON 'DELAWARE VALLEY WHITE'	DELAWARE VALLEY WHITE AZALEA	24" - 30"	#3 CONT.	4.5' O.C.	EVERGREEN SHRUB; WHITE FLOWERS; EARLY BLOOMING
RP	136	RHOODODENDRON PERICLYMENOIDES	PINKERBLOOM AZALEA	24" - 30"	#3 CONT.	4' O.C.	
VD	18	VBURNUM DENTATUM	ARROWOOD VIBURNUM	24" - 30"	#3 CONT.	5' O.C.	DECIDUOUS SHRUB
VP	16	VBURNUM PUCATUM 'MARIESSI'	MARIESSI DOUBLEFILE VIBURNUM	24" - 30"	#3 CONT.	6' O.C.	DECIDUOUS SHRUB

PLANT LIST (PART 1)

SHADE TREES

KEY	QTY.	BOTANICAL NAME
AR	4	ACER RUBRUM 'AUTUMN FLAME'
AS	2	ACER SACCHARUM
LS	4	LIQUIDAMBAR STYRACIFLUA 'ROTUNDFOLIA'
QA	0	QUERCUS ALBA
QB	19	QUERCUS BICOLOR
TOTAL=		29

MINOR SHADE TREES

KEY	QTY.	BOTANICAL NAME
BN	5	BETULA NIGRA
MV	7	MAGNOLIA VIRGINIANA
RS	18	PRUNUS SARGENTII
TOTAL=		30

ORNAMENTAL TREES

KEY	QTY.	BOTANICAL NAME
AA	7	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'
CC	10	CERCIS CANADENSIS FOREST PANSY
CF	0	CORNUS FLORIDA 'CHEROKEE CHIEF'
HV	0	HAMAMELIS VIRGINICA
MS	8	MAGNOLIA X SOULANGIANA 'GALAXY'
PY	0	PRUNUS X YEDOENSIS 'YOSHINO CHERRY'
TOTAL=		25

LARGE EVERGREEN

KEY	QTY.	BOTANICAL NAME
JV	8	JUNIPERUS VIRGINICA
IF	12	ILEX X ATTENUATA 'FOSTERI'
IO	4	ILEX OPACA
S	11	PINUS STROBUS
TC	7	TSUGA CANADENSIS
TOTAL=		42

SHRUBS

KEY	QTY.	BOTANICAL NAME
CA	16	CLETHRA ALNIFOLIA
CO	12	CEPHALANTHUS OCCIDENTALIS
IM	0	ILEX X MESERVEAE
IVL	15	ILEX VERTICILLATA
LB	0	LINDERA BENZOIN
OL	7	PRUNUS LAUROCERASUS 'OTTO LUYKENS'
RD	4	RHOODODENDRON 'DELAWARE VALLEY WHITE'
RP	27	RHOODODENDRON PERICLYMENOIDES
VD	10	VBURNUM DENTATUM
VP	14	VBURNUM PUCATUM 'MARIESSI'

TOTAL = 145